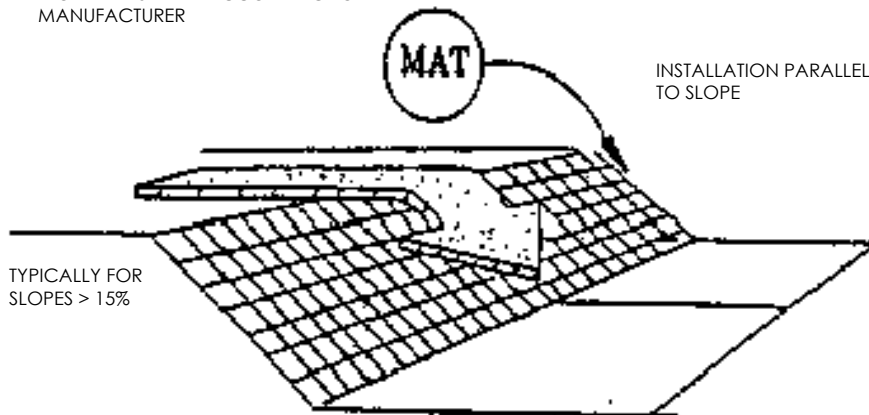


BMP: Geotextiles and Mats

GM

FLOW RATES VARY ACCORDING TO
MANUFACTURER



OBJECTIVES

- ☐ Housekeeping Practices
- ☐ Contain Waste
- ☐ Minimize Disturbed Areas
- ☒ Stabilize Disturbed Areas
- ☒ Protect Slopes/Channels
- ☐ Control Site Perimeter
- ☒ Control Internal Erosion

DESCRIPTION:

Mattings made of natural or synthetic material which are used to temporarily or permanently stabilize soil. See the related Erosion Control Blankets BMP Fact Sheet (ECB).

APPLICATION:

- ▶ Typically suited for post-construction site stabilization, but may be used for temporary stabilization of highly erosive soils.
- ▶ Channels and streams.
- ▶ Steep slopes.

INSTALLATION/APPLICATION CRITERIA:

- ▶ Mattings may be applied to disturbed soils and where existing vegetation has been removed.
- ▶ The following organic matting materials provide temporary protection until permanent vegetation is established, or when seasonal circumstances dictate the need for temporary stabilization until weather or construction delays are resolved: Jute mattings and straw mattings.
- ▶ The following synthetic mattings may be used for either temporary or post-construction stabilization, both with and without vegetation: excelsior matting, glass fiber matting, mulch matting.
- ▶ Staples are needed to anchor the matting.

LIMITATIONS:

- ▶ Mattings are more costly than other BMP practices, limiting their use to areas where other BMPs are ineffective (e.g., channels, steep slopes).
- ▶ May delay seed germination, due to reduction in soil temperature.
- ▶ Installation requires experienced contractor to ensure soil stabilization and erosion protection.

MAINTENANCE:

- ▶ Inspect monthly and after significant rainfall.
- ▶ Re-anchor loosened matting and replace missing matting and staples as required.



ADAPTED FROM SALT LAKE COUNTY BMP FACTSHEET

TARGETED POLLUTANTS

- Sediment
- ☐ Nutrients
- ☐ Toxic Materials
- ☐ Oil & Grease
- ☐ Floatable Materials
- ☐ Other Waste

- High Impact
- ☒ Medium Impact
- ☐ Low or Unknown Impact

IMPLEMENTATION REQUIREMENTS

- Capital Costs
- ☒ O&M Costs
- ☒ Maintenance
- ☐ Training

- High
- ☒ Medium
- ☐ Low